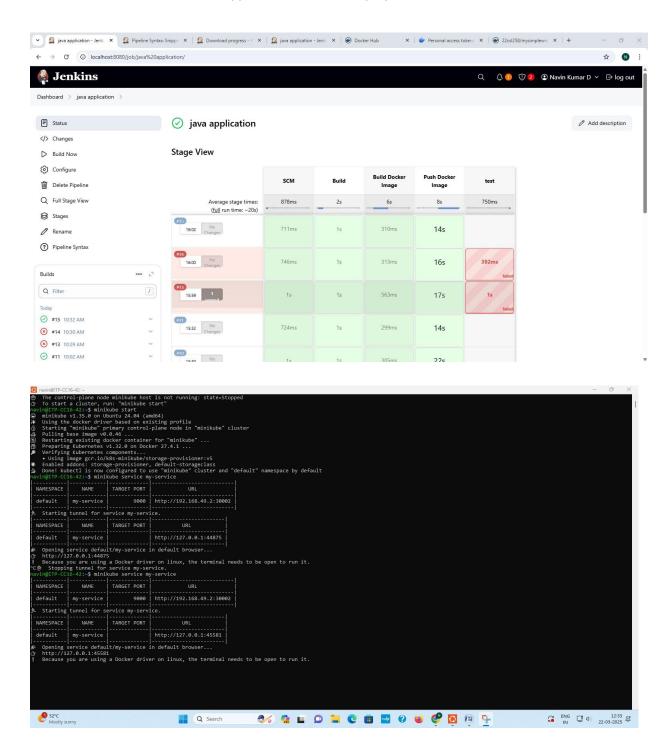
FINAL PROJECT

DAY-6

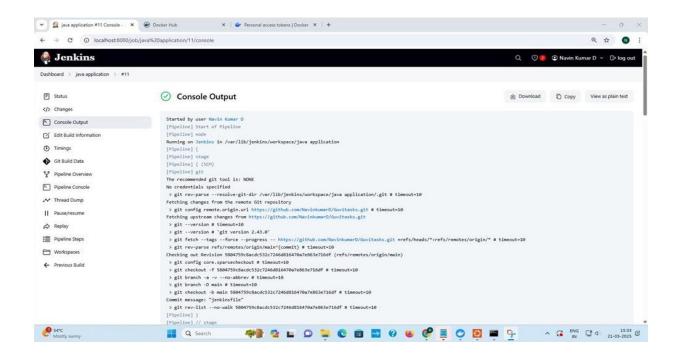
JAVA Application Minikube deployment



```
Pipeline script
   Pipelinescript-
   Jenkins JAVA
   Application
   pipeline {
     agent any
     stages { stage('scm'){
          steps{
       gitbranch:" https://github.com/NavinkumarD/Guvi-Tasks-DevOps.git"
         }
       }
       stage('builb
          -clean'){
          steps {
           sh"mvn clean"
   }
   }
       stage('build-
          validate'){
          steps {
           sh"mvn validate"
```

```
}
}
    stage('buil
      d-com'){
      steps {
        sh"mvn compile"
}
}
    stage('buil
      d-test'){
      steps {
        sh"mvn test"
}
}
    stage('build-
       install'){
      steps {
        sh"mvn package"
}
}
stage('buildtoima
      ges'){
      steps {
        script{
```

```
sh'docker build-t.'
        }
  }
}
stage('pushtohub
      script{
         withDockerRegistry(credentialsId:'Docker_cred',url: https://index.docker.io/v
          1/'){ sh 'docker push '
        }
      }
      }
}
    stage('Deploy
      App'){ steps
      {
         withKubeConfig(caCertificate:",clusterName:'minikube',contextName:'minikube',
credential s Id: 'mukube config\_011', names pace: '', restrict Kube Config Access: false, server Url:
        sh'kubectlapply -fdeployment.yml --validate=false'
      }
    }
  stage('Test'){ steps {
```



Deployment.yml

```
apiVersion:ap
ps/v1 kind:
Deployment
metadata:
 name: my-
  deploy
 namespace:m
 y-bank
 labels:
    name:my-
deploy spec:
  replicas:1
  selector:
    matchLabels:
      apptype:web-
  backend strategy:
    type:RollingUpdate
  template:
    metadata: labels:
        apptype:web-
    backend spec:
```

```
containers:
          -name:my-web
            image:22cs1258/mysimplewebapplication:tagnam
            e ports:
            -containerPort:9001
   apiVersion:
   v1 kind:
   Service
   metadata:
     name: my-
     service
     namespace:m
     y-bank
     labels:
       app:my-
   service spec:
     type:NodePo
     rt ports:
       -port:9001
          targetPort:8080
Service.yml
apiVersion: apps/v1
kind: Deployment
metadata:
 name: my-deploy
 labels:
  name: my-deploy
spec:
 replicas: 1
 selector:
  matchLabels:
   apptype: web-backend
 strategy:
  type: RollingUpdate
 template:
  metadata:
   labels:
    apptype: web-backend
  spec:
   containers:
   - name: my-app
    image: 22csl258/simplewebapp:latest
    ports:
```

- containerPort: 9000

apiVersion: v1 kind: Service metadata:

name: my-service

labels:

app: my-service

spec:

type: NodePort

ports:

- port: 9000

targetPort: 8080 nodePort: 30002

selector:

apptype: web-backend

```
navin@ITP-CC16-42:~$ sudo vim /etc/prometheus/prometheus.yml
navin@ITP-CC16-42:~$ promtool check config /etc/prometheus.yml
Checking /etc/prometheus/prometheus.yml
SUCCESS: /etc/prometheus/prometheus.yml is valid prometheus config file syntax
navin@ITP-CC16-42:~$
```

